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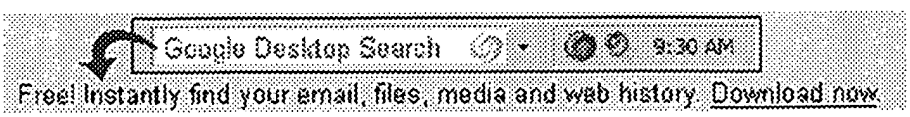
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1 Design, retrieval, and assembly in component-based software development

Padmal Vitharana, Fatemah Mariam Zahedi, Hemant Jain

November 2003 **Communications of the ACM**, Volume 46 Issue 11

Full text available: pdf(122.04 KB) html(31.71 KB) Additional Information: full citation, abstract, references, index terms, review

Until recently, anecdotal evidence could only suggest CBSD superiority in requirements identification. Here is a set of testable hypotheses to help distinguish hype from fact.

2 A semantic-based approach to component retrieval

Vijayan Sugumaran, Veda C. Storey

August 2003 **ACM SIGMIS Database**, Volume 34 Issue 3

Full text available: pdf(367.67 KB) Additional Information: full citation, abstract, references, citings, index terms

There continues to be a great deal of pressure to design and develop information systems within a short period of time. This urgency has reinvigorated research on software reuse, particularly in component based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

Keywords: component based development, domain model, ontology, reuse repository, systems development

Results 1 - 2 of 2

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41 Session 4C: argumentation, persuation, and papers: Argument exchange in heterogeneous electronic commerce environments
Luís Brito, José Neves
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1**
Full text available: pdf(210.29 KB) Additional Information: full citation, abstract, references, index terms

Argumentation enables agents to justify their actions and to reach stable situations faster, due to the amount of information that is exchanged. Logic and, in special, Extended Logic Programming (ELP) provides a way to develop arguments which are mathematically correct and close to a working prototype. Logic-based argumentation exhibits a set of unparalleled features such as: adequacy to logic-based approaches to pre-argument reasoning, similarity to the human reasoning processes, reasoning with ...

Keywords: XML, argumentation, eCo, electronic commerce, extended logic programming

42 Influencing software usage
Lorrie Faith Cranor, Rebecca N. Wright
April 2000 **Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions**
Full text available: pdf(95.92 KB) Additional Information: full citation, references, index terms

43 Global abstraction-safe marshalling with hash types
James J. Leifer, Gilles Peskine, Peter Sewell, Keith Wansbrough
August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming**, Volume 38 Issue 9
Full text available: pdf(226.25 KB) Additional Information: full citation, abstract, references, citings, index terms

Type abstraction is a key feature of ML-like languages for writing large programs. Marshalling is necessary for writing distributed programs, exchanging values via network byte-streams or persistent stores. In this paper we combine the two, developing compile-time and run-time semantics for marshalling, that guarantee abstraction-safety between separately-built programs. We obtain a namespace for abstract types that is global, i.e. meaningful between programs, by hashing module declarations. We ...

Keywords: ML, abstract types, distributed programming, hashing, lambda calculus, marshalling, modules, programming languages, serialisation, singleton kinds, type theory

44 Managing the software design documents with XML

Junichi Suzuki, Yoshikazu Yamamoto

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

Keywords: CASE data interchange, UML, XML, software model interchange

45 Integrating X.400 message handling into the IBM VM/SP environment

K. Fischer, W. F. Racke

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available: pdf(842.13 KB) Additional Information: full citation, abstract, references, index terms

A prototype X.400 message handling system for IBM's VM/SP operating system is discussed. The system is designed to provide smooth integration of X.400 services into the predominantly used means of interpersonal communication in the VM/SP environment (RSCS). The system provides native X.400 services to its users and therefore is not a gateway between RSCS and X.400 protocols.

46 Managing resources and services: Metis: lightweight, flexible, and Web-based workflow services for digital libraries

Kenneth M. Anderson, Aaron Andersen, Neet Wadhwani, Laura M. Bartolo

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(154.93 KB) Additional Information: full citation, abstract, references, citings, index terms

The Metis project is developing workflow technology designed for use in digital libraries by avoiding the assumptions made by traditional workflow systems. In particular, digital libraries have highly distributed sets of stake-holders who nevertheless must work together to perform shared activities. Hence, traditional assumptions that all members of a workflow belong to the same organization, work in the same fashion, or have access to similar computing platforms are invalid. The Metis approach ...

47 Reflections on the ORB: a look back at our experience building an ORB-based architecture

Richard Jordan, Mark O'Riordan, Tom Williams

January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Full text available: pdf(621.35 KB) Additional Information: full citation, index terms

48 Exhibits: The chat circles series: explorations in designing abstract graphical communication interfaces

Judith Donath, Fernanda B. Viégas

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: pdf(357.12 KB) Additional Information: full citation, abstract, references, index terms

We have been creating a series of graphical chat programs designed to foster social interaction and expressive communication. We started with a spare, minimalist interface and in subsequent programs have modified its fundamental features: background space, individual representation, movement implementation, communication channels, and history depiction. The resulting family of graphical chat programs share many interface features but differ significantly in their feel and function. This paper ex ...

Keywords: conversational interface, online chat, social communication

49 Interworking between Digital European Cordless Telecommunications and a distributed packet switch

Sudarshan Rao, David J. Goodman, Gregory P. Pollini, Kathleen S. Meier-Hellstern
February 1995 **Wireless Networks**, Volume 1 Issue 1

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Digital European Cordless Telecommunications (DECT) standard specifies an air interface. DECT requires an external infrastructure to transfer information between wireless terminals, and to transfer information between a wireless terminal and a fixed network. The Public Switched Telephone Network, the GSM Cellular Network, Private Branch Exchanges and mobile data networks are all under investigation as DECT backbone networks. In this paper we look to the future and describe interworking ...

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21 Virtual extension: A comparison of B2B e-service solutions
Dan Jong Kim, Manish Agrawal, Bharat Jayaraman, H. Raghav Rao
December 2003 **Communications of the ACM**, Volume 46 Issue 12
Full text available: pdf(283.30 KB) html(25.71 KB) Additional Information: full citation, references, index terms

22 Data exploration: DBXplorer: enabling keyword search over relational databases
Sanjay Agrawal, Surajit Chaudhuri, Gautam Das
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
Full text available: pdf(94.30 KB) Additional Information: full citation, references, citings, index terms

23 NSF workshop on industrial/academic cooperation in database systems
Mike Carey, Len Seligman
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1
Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

24 Interoperable Web services for computational portals
Marlon Pierce, Geoffrey Fox, Choonhan Youn, Steve Mock, Kurt Mueller, Ozgur Balsoy
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**
Full text available: pdf(278.00 KB) Additional Information: full citation, abstract, references, citings, index terms

Computational web portals are designed to simplify access to diverse sets of high performance computing resources, typically through an interface to computational Grid tools. An important shortcoming of these portals is their lack of interoperable and reusable services. This paper presents an overview of research efforts undertaken by our group to build interoperating portal services around a Web Services model. We present a comprehensive view of an interoperable portal architecture, beginning w ...

25 GNOME, its state and future

George Lebl, Elliot Lee, Miguel de Icaza
February 2000 **Linux Journal**

Full text available: html(25.48 KB) Additional Information: full citation, references, index terms

26 Reputation and endorsement for web services

E. Michael Maximilien, Munindar P. Singh
December 2001 **ACM SIGecom Exchanges**, Volume 3 Issue 1

Full text available: pdf(70.18 KB) Additional Information: full citation, abstract, references, citings, index terms

The web services set of standards promise the dynamic creation of loosely coupled systems, such as those that are required for e-commerce applications. However, current approaches for web services lack key functionality, especially to locate, select, and bind services meeting certain criteria of quality. We propose an approach wherein software agents assist in this task by disseminating reputations and endorsements through a specialized agency, which augments the capabilities of current standard ...

Keywords: e-commerce, software agents, web services

27 A methodology for prototyping-in-the-large

James Purtilo, Aaron Larson, Jeff Clark
May 1991 **Proceedings of the 13th international conference on Software engineering**

Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings

28 Industrial applications of distributed AI

B. Chaib-draa
November 1995 **Communications of the ACM**, Volume 38 Issue 11

Full text available: pdf(254.36 KB) Additional Information: full citation, abstract, references, citings, index terms

Most work done in distributed artificial intelligence (DAI) had targeted sensory networks, including air traffic control, urban traffic control, and robotic systems. The main reason is that these applications necessitate distributed interpretation and distributed planning by means of intelligent sensors. Planning includes not only the activities to be undertaken, but also the use of material and cognitive resources to accomplish interpretation tasks and planning tasks. These application are ...

29 How a good software practice thwarts collaboration: the multiple roles of APIs in software development

Cleidson R. B. de Souza, David Redmiles, Li-Te Cheng, David Millen, John Patterson
October 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 12th ACM SIGSOFT twelfth international symposium on Foundations of software engineering**, Volume 29 Issue 6

Full text available: pdf(161.73 KB) Additional Information: full citation, abstract, references, index terms

The principle of information hiding has been very influential in software engineering since its inception in 1972. This principle prescribes that software modules hide implementation details from other modules in order to decrease their interdependencies. This separation also decreases the dependency among software developers implementing modules, thus simplifying some aspects of collaboration. A common instantiation of this principle is in the form of application programming interfaces (APIs ...

Keywords: application programming interfaces, empirical software engineering, interfaces, qualitative studies

30 Systems: YABLE—yet another behaviour language

Tony Burrows, David England
March 2005 **Proceedings of the tenth international conference on 3D Web technology**

Full text available: pdf(166.09 KB) Additional Information: full citation, abstract, references

There is an increasing use of virtual environments for applications ranging from education to industrial processes, behavioural modification and games. While tools have been written to enable end users to generate static environments, little has been done with respect to dynamic ones, where behaviour is a major element for believability. This is still very much the province of the programmer.This paper examines the current state of virtual reality development with particular reference to the spe ...

31 MOCA: a service framework for mobile computing devices

James Beck, Alain Gefflaut, Nayeem Islam
August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access**

Full text available: pdf(911.37 KB) Additional Information: full citation, references, citings, index terms

Keywords: Java, component software, mobile device, service discovery, service framework

32 Modeling methodology: Distributed supply chain simulation in GRIDS

Rajeev Sudra, Simon J. E. Taylor, Tharumasegaram Janahan
December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(206.55 KB) Additional Information: full citation, abstract, references, citings

Amongst the majority of work done in Supply Chain Simulation, papers have emerged that examine the area of model distribution. The executions of simulations on distributed hosts as a coupled model require both coordination and facilitating infrastructure. A distributed environment, the Generic Runtime Infrastructure for Distributed Simulation (GRIDS) is suggested to provide the bonding requirements for such a model. The advantages of transparently connecting the distributed components of a suppl ...

33 MADAPT: managed aspects for dynamic adaptation based on profiling techniques

Robin Liu, Celina Gibbs, Yvonne Coady
October 2004 **Proceedings of the 3rd workshop on Adaptive and reflective middleware**

Full text available: pdf(541.85 KB) Additional Information: full citation, abstract, references

An increasingly significant cost associated with dynamically adaptive middleware is the complexity of managing the code responsible for adaptive behaviour. It is not surprising that, due to the fine-grained nature of trace-data collection and the subtle adaptation that can result, more flexible systems are typically more complex to manage. This paper makes the case for using aspect-oriented programming (AOP) [6] as a means to achieve adaptive middleware based on fine-grained, customizable, pr ...

34 Knowledge sharing in software engineering: Sometimes you need to see through walls: a field study of application programming interfaces

Cleidson R. B. de Souza, David Redmiles, Li-Te Cheng, David Millen, John Patterson

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available: pdf(209.03 KB) Additional Information: full citation, abstract, references, index terms

Information hiding is one of the most important and influential principles in software engineering. It prescribes that software modules hide implementation details from other modules in order to decrease the dependency between them. This separation also decreases the dependency among software developers implementing modules, thus simplifying some aspects of collaboration. A common instantiation of this principle is in the form of application programming interfaces (APIs). We performed a field ...

Keywords: application programming interfaces, collaborative software development, interfaces, qualitative studies

35 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3

Full text available: pdf(5.02 MB) Additional Information: full citation, abstract, references, citings

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

36 Development of an OO infrastructure for mainframe database applications

Darryl James Rothering

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available: pdf(839.77 KB) Additional Information: full citation, abstract, references, index terms

Large mainframe installations need and want to exploit the advantages of Object Technology (OT), but without totally abandoning their legacy environments. Implementing Object Orientation in such a COBOL/CICS/DB2 environment is a challenge: there is neither language support, nor development tools, nor execution infrastructure, nor testing utilities. Yet Object Orientation can be fully implemented, and a project can still meet rigorous performance requirements and tough delivery time scales. ...

37 The NASA Digital Earth Testbed

Jeff de La Beaujardière, Horace Mitchell, Robert Raskin, Ananth Rao

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Full text available: pdf(767.19 KB) Additional Information: full citation, abstract, index terms

The goal of Digital Earth (www.digitalearth.gov) is to create a virtual representation of our planet that enables a person to explore and interact with the vast amounts of natural and cultural information gathered about the Earth. The challenge is enormous, and a critical first step is interoperability among the servers, viewers, catalogs and middleware services in such a distributed computing network.

As part of its contribution to the public/private/academic Digital Earth (DE) partn ...

38 Provision of market services for eCo compliant electronic marketplaces 
Sena Arpinar, Asuman Dogac
September 2000 **ACM SIGMOD Record**, Volume 29 Issue 3

Full text available: pdf(49.72 KB) Additional Information: full citation, abstract, index terms

The progress and wider dissemination of electronic commerce will be facilitated through interoperability infrastructures. Commerce Net's eCo framework is a promising effort in this direction. In the eCo framework, businesses participate in a marketplace through standard interfaces for their services and by exchanging standardized documents. This framework does not specify any further interfaces for the services a marketplace itself may offer.In this paper, we demonstrate that a rich set of marke ...

39 Light hypermedia link services: a study of third party application integration 
Hugh C. Davis, Simon Knight, Wendy Hall
September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology**

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

Recently there has been a tendency for the research community to move away from closed hypermedia syustems, towards open hypermedia link services which allow third parties to produce applications so that they are hypertext-enabled. This paper explores the frontiers of this trend by examining the minimum responsibility of an application to co-operate with the underlying link service, and, in the limiting case where the application has not been enabled in any way, it explores the properties a ...

Keywords: Microcosm, hypermedia link services, integration, open hypermedia

40 OOPSLA onward!: Protocols for processes: programming in the large for open systems 
Munindar P. Singh, Amit K. Chopra, Nirmit Desai, Ashok U. Mallya
December 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 12

Full text available: pdf(378.93 KB) Additional Information: full citation, abstract, references, index terms

The modeling and enactment of business processes is being recognized as key to modern information managment. The expansion of Web services has increased the attention given to processes, because processes are how services are composed and put to good use. However, current approaches are inadequate for flexibly modeling and enacting processes. These approaches take a logically centralized view of processes, treating a process as an implementation of a composed service. They provide low-level scri ...

Keywords: business processes, interaction protocols, open systems

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1 Papers: Component-based measurement: few useful guidelines
N. S. Gill, P. S. Grover
November 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 6
Full text available: pdf(257.34 KB) Additional Information: full citation, abstract, references, citings

Software industries are striving for new techniques and approaches that could improve software developer productivity, reduce time-to-market, deliver excellent performance and produce systems that are flexible, scalable, secure, and robust. Only software components can meet these demands and following this; component-based software engineering (CBSE) has emerged, which has generated tremendous interest in software development community. The paradigm shift to software components appears inevitabl ...

2 An assessment model for requirements identification in component-based software development
Hemant Jain, Padmal Vitharana, Fatemah Mariam Zahedi
November 2003 **ACM SIGMIS Database**, Volume 34 Issue 4
Full text available: pdf(320.60 KB) Additional Information: full citation, abstract, references, index terms

Software development literature is replete with studies that demonstrate how ineffective requirements analysis (RA) has led to failed applications. Some of the difficulties encountered in RA however are due to inherent limitations in traditional approach to software development. On the other hand, component-based software development (CBSD) presents a unique approach to developing software. Components advertise the services they offer and could be organized in a knowledge-base (i.e., repository) ...

Keywords: component-based software development, information processing theory, requirements analysis

3 Lessons learned through six years of component-based development
Michael Sparling
October 2000 **Communications of the ACM**, Volume 43 Issue 10
Full text available: pdf(360.60 KB) html(33.58 KB) Additional Information: full citation, references, citings, index terms

4

Frameworks for component-based client/server computing
Scott M. Lewandowski
March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1
Full text available: pdf(243.81 KB) Additional Information: full citation, references, citings, index terms

5 Component-based frameworks for e-commerce
Peter Fingar
October 2000 **Communications of the ACM**, Volume 43 Issue 10
Full text available: pdf(203.66 KB) html(27.14 KB) Additional Information: full citation, references, citings, index terms

6 Communication technologies: A new generation of communication aids under the ULYSSES component-based framework
Georgios Kouroupetroglou, Alexandros Pino
July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies**
Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we introduce a new generation of computer-based communication aids, designed and developed using state of the art software engineering models and architectures. The communicators we present are based on a component-based framework called ULYSSES that aims to simplify the integration of multi-vendor components into low cost products and maximizes modularity and reusability. Following the ULYSSES approach, one can build up powerful and reliable applications, adaptable to various use ...

Keywords: Augmentative and Alternative Communication (AAC), communication aids, communicators, component based development, framework architecture

7 A semantic-based approach to component retrieval
Vijayan Sugumaran, Veda C. Storey
August 2003 **ACM SIGMIS Database**, Volume 34 Issue 3
Full text available: pdf(367.67 KB) Additional Information: full citation, abstract, references, citings, index terms

There continues to be a great deal of pressure to design and develop information systems within a short period of time. This urgency has reinvigorated research on software reuse, particularly in component based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

Keywords: component based development, domain model, ontology, reuse repository, systems development

8 2b---Hypertext Systems: Organizing shared enterprise workspaces using component-based cooperative hypermedia
Jessica Rubart, Jörg M. Haake, Daniel A. Tietze, Weigang Wang
September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**
Additional Information:

Full text available: pdf(380.50 KB) full citation, abstract, references, citings, index terms

Cooperative work in Extended Enterprises needs a flexible shared workspace for team members to access and manipulate shared information objects in a well-coordinated working process. Current shared workspace systems do not adequately support the evolving character of shared workspaces as needed by Extended Enterprises, i.e. the dynamic cooperation processes, various kinds of shared information contents and the set of cooperative tools. In this paper, the usage scenarios and requirements devel ...

9 Risks and challenges of component-based software development
Padmal Vitharana
August 2003 **Communications of the ACM**, Volume 46 Issue 8

Full text available: pdf(103.28 KB) html(27.79 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Component developers, application assemblers, and customers must all know CBSD advantages and disadvantages before developing components and component-based applications.

10 Component primer
Jon Hopkins
October 2000 **Communications of the ACM**, Volume 43 Issue 10

Full text available: pdf(148.14 KB) html(20.81 KB) Additional Information: full citation, references, citings, index terms

11 Design, retrieval, and assembly in component-based software development
Padmal Vitharana, Fatemah Mariam Zahedi, Hemant Jain
November 2003 **Communications of the ACM**, Volume 46 Issue 11

Full text available: pdf(122.04 KB) html(31.71 KB) Additional Information: full citation, abstract, references, index terms, review

Until recently, anecdotal evidence could only suggest CBSD superiority in requirements identification. Here is a set of testable hypotheses to help distinguish hype from fact.

12 Enterprise resource planning: componentizing the enterprise application packages
David Sprott
April 2000 **Communications of the ACM**, Volume 43 Issue 4

Full text available: pdf(111.17 KB) html(34.85 KB) Additional Information: full citation, references, citings, index terms

13 Component specialization
Gustavo Bobeff, Jacques Noyé
August 2004 **Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available: pdf(285.59 KB) Additional Information: full citation, abstract, references, index terms

Component-Based Software Development (CBSD)is an attractive way to deliver generic executable pieces of program, ready to be reused in many different contexts. Component reuse is based on a black-box model that frees component consumers from diving into implementation details. Adapting a generic component to a particular context of use is then based on a parameterized interface that becomes a specific component wrapper at runtime.

This shallow adaptation, which keeps the component implementation ...

Keywords: component generator, component-based software development, partial evaluation, program slicing

14 A message-oriented middleware for sensor networks

Eduardo Souto, Germano Guimarães, Glauco Vasconcelos, Mardoqueu Vieira, Nelson Rosa, Carlos Ferraz

October 2004 **Proceedings of the 2nd workshop on Middleware for pervasive and ad-hoc computing**

Full text available: pdf(386.41 KB) Additional Information: full citation, abstract, references, index terms

The miniaturization of hardware components has lead to the development of Wireless Sensor Networks (WSN) and networked-applications over them. Meanwhile, middleware systems have also been proposed in order to both facilitating the development of these applications and providing common application services. The development of middleware for sensor networks, however, places new challenges to middleware developers due to the low availability of resources and processing capacity of the sensor nod ...

Keywords: middleware, publish/subscribe, wireless sensor networks

15 Database in crisis and transition: a technical agenda for the year 2001

David Vaskevitch

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available: pdf(492.75 KB) Additional Information: full citation, abstract, references, citings, index terms

The current paper outlines a number of important changes that face the database community and presents an agenda for how some of these challenges can be met. This database agenda is currently being addressed in the Enterprise Group at Microsoft Corporation. The paper concludes with a scenario for 2001 which reflects the Microsoft vision of "Information at your fingertips."

16 Session 3: Personal chronicling tools for enhancing information archival and collaboration in enterprises

Pilho Kim, Mark Podlaseck, Gopal Pingali

October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences**

Full text available: pdf(590.93 KB) Additional Information: full citation, abstract, references, index terms

One of the greatest challenges in enterprises today is the lack of dynamic and ongoing information about individuals' activities, interests, and expertise. Availability of such "personal chronicles" can provide rich benefits at both an individual and enterprise level. For example, personal chronicles can help individuals to far more effectively retrieve and review their activities and interactions, while at an enterprise level they can be data-mined to identify groups of common and complement ...

Keywords: XML, action capture, browse, business process modeling, chronicle, context modeling, enterprise, event, information, information sharing, interaction, interfaces, mobile, monitoring, pervasive systems, presentation systems, publication, publishing, retrieval, search, tag, ubiquitous computing

17 Extending OLAP querying to external object databases

Torben Bach Pedersen, Arie Shoshani, Junmin Gu, Christian S. Jensen
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Full text available: pdf(168.32 KB) Additional Information: full citation, references, citings, index terms

18 Improving the reliability of commodity operating systems
Michael M. Swift, Brian N. Bershad, Henry M. Levy
January 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1
Full text available: pdf(459.98 KB) Additional Information: full citation, abstract, references, index terms

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85&percent; of recently reported failures.This article describes Nooks, a *reliability subsystem* that seeks to greatly enhance operating system (OS) reliability by isolating the OS from driver failures. The Nooks approach is practical: rather than guaranteeing complete fault tolerance through ...

Keywords: I/O, Recovery, device drivers, protection, virtual memory

19 Making operating systems more robust: Improving the reliability of commodity operating systems
Michael M. Swift, Brian N. Bershad, Henry M. Levy
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Full text available: pdf(262.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85% of recently reported failures. This paper describes Nooks, a *reliability subsystem* that seeks to greatly enhance OS reliability by isolating the OS from driver failures. The Nooks approach is practical: rather than guaranteeing complete fault tolerance through a new (and incompatible) OS ...

Keywords: I/O, device drivers, protection, recovery, virtual memory

20 Adding more "DL" to IDL: towards more knowledgeable component inter-operability
Alex Borgida, Premkumar Devanbu
May 1999 **Proceedings of the 21st international conference on Software engineering**
Full text available: pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

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Relevance scale

41 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

42 Managing the software design documents with XML

Junichi Suzuki, Yoshikazu Yamamoto

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

Keywords: CASE data interchange, UML, XML, software model interchange

43 Reflections on the ORB: a look back at our experience building an ORB-based architecture

Richard Jordan, Mark O'Riordan, Tom Williams

January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Full text available: pdf(621.35 KB) Additional Information: full citation, index terms

44 Frameworks for component-based client/server computing

Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1

Full text available: pdf(243.81 KB) Additional Information: full citation, references, citings, index terms

45 A methodology for prototyping-in-the-large

James Purtilo, Aaron Larson, Jeff Clark

May 1991 **Proceedings of the 13th international conference on Software engineering**

Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings

46 Industrial applications of distributed AI

B. Chaib-draa

November 1995 **Communications of the ACM**, Volume 38 Issue 11

Full text available: pdf(254.36 KB) Additional Information: full citation, abstract, references, citings, index terms

Most work done in distributed artificial intelligence (DAI) had targeted sensory networks, including air traffic control, urban traffic control, and robotic systems. The main reason is that these applications necessitate distributed interpretation and distributed planning by means of intelligent sensors. Planning includes not only the activities to be undertaken, but also the use of material and cognitive resources to accomplish interpretation tasks and planning tasks. These application are ...

47 Interworking between Digital European Cordless Telecommunications and a distributed packet switch

Sudarshan Rao, David J. Goodman, Gregory P. Pollini, Kathleen S. Meier-Hellstern

February 1995 **Wireless Networks**, Volume 1 Issue 1

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Digital European Cordless Telecommunications (DECT) standard specifies an air interface. DECT requires an external infrastructure to transfer information between wireless terminals, and to transfer information between a wireless terminal and a fixed network. The Public Switched Telephone Network, the GSM Cellular Network, Private Branch Exchanges and mobile data networks are all under investigation as DECT backbone networks. In this paper we look to the future and describe interworking ...

48 A client-side stub interpreter

Peter B. Kessler

August 1994 **ACM SIGPLAN Notices , Proceedings of the workshop on Interface definition languages**, Volume 29 Issue 8

Full text available: pdf(554.02 KB) Additional Information: full citation, abstract, citings, index terms

We have built a research operating system in which all services are presented through interfaces described by an interface description language. The system consists of a micro-kernel that supports a small number of these interfaces, and a large number of interfaces that are implemented by user-level code. A typical service implements one or more interfaces, but is a client of many other interfaces that are implemented elsewhere in the system. We have an interface compiler that generates client-s ...

49 Light hypermedia link services: a study of third party application integration

Hugh C. Davis, Simon Knight, Wendy Hall

September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology**

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

Recently there has been a tendency for the research community to move away from closed hypermedia syustems, towards open hypermedia link services which allow third parties to produce applications so that they are hypertext-enabled. This paper explores the frontiers of this trend by examining the minimum responsibility of an application to co-operate with the underlying link service, and, in the limiting case where the application has not been enabled in any way, it explores the properties a ...

Keywords: Microcosm, hypermedia link services, integration, open hypermedia

50 Database in crisis and transition: a technical agenda for the year 2001
David Vaskevitch
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2
Full text available: pdf(492.75 KB) Additional Information: full citation, abstract, references, citings, index terms

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51 Posters: Service discovery and measurement based on DAML-QoS ontology
Chen Zhou, Liang-Tien Chia, Bu-Sung Lee
May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web**
Full text available: pdf(60.91 KB) Additional Information: full citation, abstract, references, index terms

As more and more Web services are deployed, Web service's discovery mechanisms become essential. Similar services can have quite different QoS behaviors. For service selection and management purpose, it is necessary to clearly specify QoS constraints and metrics definitions for Web services. We investigate on the semantic QoS specification and introduce our design principles on it. Based on the specification refinement and conformance, we introduce the QoS matchmaking algorithm with multiple mat ...

Keywords: QoS, matchmaking, semantic web, web service discovery

52 OOPSLA onward!: Protocols for processes: programming in the large for open systems
Munindar P. Singh, Amit K. Chopra, Nirmit Desai, Ashok U. Mallya
December 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 12
Full text available: pdf(378.93 KB) Additional Information: full citation, abstract, references, index terms

The modeling and enactment of business processes is being recognized as key to modern information managment. The expansion of Web services has increased the attention given to processes, because processes are how services are composed and put to good use. However, current approaches are inadequate for flexibly modeling and enacting processes. These approaches take a logically centralized view of processes, treating a process as an implementation of a composed service. They provide low-level scri ...

Keywords: business processes, interaction protocols, open systems

53 Knowledge sharing in software engineering: Sometimes you need to see through walls: a field study of application programming interfaces
Cleidson R. B. de Souza, David Redmiles, Li-Te Cheng, David Millen, John Patterson
November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**
Full text available: pdf(209.03 KB) Additional Information: full citation, abstract, references, index terms

Information hiding is one of the most important and influential principles in software engineering. It prescribes that software modules hide implementation details from other

modules in order to decrease the dependency between them. This separation also decreases the dependency among software developers implementing modules, thus simplifying some aspects of collaboration. A common instantiation of this principle is in the form of application programming interfaces (APIs). We performed a field ...

Keywords: application programming interfaces, collaborative software development, interfaces, qualitative studies

54 Improving the reliability of commodity operating systems

Michael M. Swift, Brian N. Bershad, Henry M. Levy

January 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1

Full text available: pdf(459.98 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: I/O, Recovery, device drivers, protection, virtual memory

55 Component specialization

Gustavo Bobeff, Jacques Noyé

August 2004 **Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available: pdf(285.59 KB) Additional Information: full citation, abstract, references, index terms

Component-Based Software Development (CBSD)is an attractive way to deliver generic executable pieces of program, ready to be reused in many different contexts. Component reuse is based on a black-box model that frees component consumers from diving into implementation details. Adapting a generic component to a particular context of use is then based on a parameterized interface that becomes a specific component wrapper at runtime. This shallow adaptation, which keeps the component implementation ...

Keywords: component generator, component-based software development, partial evaluation, program slicing

56 MADAPT: managed aspects for dynamic adaptation based on profiling techniques

Robin Liu, Celina Gibbs, Yvonne Coady

October 2004 **Proceedings of the 3rd workshop on Adaptive and reflective middleware**

Full text available: pdf(541.85 KB) Additional Information: full citation, abstract, references

An increasingly significant cost associated with dynamically adaptive middleware is the complexity of managing the code responsible for adaptive behaviour. It is not surprising that, due to the fine-grained nature of trace-data collection and the subtle adaptation that can result, more flexible systems are typically more complex to manage. This paper makes the case for using aspect-oriented programming (AOP) [6] as a means to achieve adaptive middleware based on fine-grained, customizable, pr ...

57 A message-oriented middleware for sensor networks

Eduardo Souto, Germano Guimarães, Glauco Vasconcelos, Mardoqueu Vieira, Nelson Rosa, Carlos Ferraz

October 2004 **Proceedings of the 2nd workshop on Middleware for pervasive and ad-hoc computing**

Full text available: pdf(386.41 KB) Additional Information: full citation, abstract, references, index terms

The miniaturization of hardware components has lead to the development of Wireless Sensor Networks (WSN) and networked-applications over them. Meanwhile, middleware systems have also been proposed in order to both facilitating the development of these applications and providing common application services. The development of middleware for sensor networks, however, places new challenges to middleware developers due to the low availability of resources and processing capacity of the sensor nod ...

Keywords: middleware, publish/subscribe, wireless sensor networks

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21 Risks and challenges of component-based software development

Padmal Vitharana

August 2003 **Communications of the ACM**, Volume 46 Issue 8

Full text available: pdf(103.28 KB) html(27.79 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Component developers, application assemblers, and customers must all know CBSD advantages and disadvantages before developing components and component-based applications.

22 Reputation and endorsement for web services

E. Michael Maximilien, Munindar P. Singh

December 2001 **ACM SIGecom Exchanges**, Volume 3 Issue 1

Full text available: pdf(70.18 KB) Additional Information: full citation, abstract, references, citings, index terms

The web services set of standards promise the dynamic creation of loosely coupled systems, such as those that are required for e-commerce applications. However, current approaches for web services lack key functionality, especially to locate, select, and bind services meeting certain criteria of quality. We propose an approach wherein software agents assist in this task by disseminating reputations and endorsements through a specialized agency, which augments the capabilities of current standard ...

Keywords: e-commerce, software agents, web services

23 Managing resources and services: Metis: lightweight, flexible, and Web-based workflow services for digital libraries

Kenneth M. Anderson, Aaron Andersen, Neet Wadhwani, Laura M. Bartolo

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(154.93 KB) Additional Information: full citation, abstract, references, citings, index terms

The Metis project is developing workflow technology designed for use in digital libraries by avoiding the assumptions made by traditional workflow systems. In particular, digital libraries have highly distributed sets of stake-holders who nevertheless must work together to perform shared activities. Hence, traditional assumptions that all members of a workflow belong to the same organization, work in the same fashion, or have access to similar

computing platforms are invalid. The Metis approach ...

24 Exhibits: The chat circles series: explorations in designing abstract graphical communication interfaces



Judith Donath, Fernanda B. Viégas

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: pdf(357.12 KB) Additional Information: full citation, abstract, references, index terms

We have been creating a series of graphical chat programs designed to foster social interaction and expressive communication. We started with a spare, minimalist interface and in subsequent programs have modified its fundamental features: background space, individual representation, movement implementation, communication channels, and history depiction. The resulting family of graphical chat programs share many interface features but differ significantly in their feel and function. This paper ex ...

Keywords: conversational interface, online chat, social communication

25 Interoperable Web services for computational portals



Marlon Pierce, Geoffrey Fox, Choonhan Youn, Steve Mock, Kurt Mueller, Ozgur Balsoy

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available: pdf(278.00 KB) Additional Information: full citation, abstract, references, citings, index terms

Computational web portals are designed to simplify access to diverse sets of high performance computing resources, typically through an interface to computational Grid tools. An important shortcoming of these portals is their lack of interoperable and reusable services. This paper presents an overview of research efforts undertaken by our group to build interoperating portal services around a Web Services model. We present a comprehensive view of an interoperable portal architecture, beginning w ...

26 Formulations and benefits of the law of demeter



K. J. Lienberherr

March 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 3

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, citings, index terms

Our initial ideas on preventive maintenance of object-oriented systems were presented in [LHR88] which describes a set of guidelines called the "Law of Demeter". As a result of this publication we have received much feedback, as well as a detailed critique from [Sak89]. In this paper we expand on the initial ideas and present a new perspective with which to view the Law. This perspective is based on client/supplier relationships between methods and classes and allows a cleaner description of the ...

27 Special issue on persistent object systems: Orthogonally persistent object systems



Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3

Full text available: pdf(5.02 MB) Additional Information: full citation, abstract, references, citings

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

28 Communication technologies: A new generation of communication aids under the ULYSSES component-based framework

Georgios Kouroupetroglou, Alexandros Pino

July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies**

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we introduce a new generation of computer-based communication aids, designed and developed using state of the art software engineering models and architectures. The communicators we present are based on a component-based framework called ULYSSES that aims to simplify the integration of multi-vendor components into low cost products and maximizes modularity and reusability. Following the ULYSSES approach, one can build up powerful and reliable applications, adaptable to various use ...

Keywords: Augmentative and Alternative Communication (AAC), communication aids, communicators, component based development, framework architecture

29 Integrating X.400 message handling into the IBM VM/SP environment

K. Fischer, W. F. Racke

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available: pdf(842.13 KB) Additional Information: full citation, abstract, references, index terms

A prototype X.400 message handling system for IBM's VM/SP operating system is discussed. The system is designed to provide smooth integration of X.400 services into the predominantly used means of interpersonal communication in the VM/SP environment (RSCS). The system provides native X.400 services to its users and therefore is not a gateway between RSCS and X.400 protocols.

30 Data exploration: DBXplorer: enabling keyword search over relational databases

Sanjay Agrawal, Surajit Chaudhuri, Gautam Das

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(94.30 KB) Additional Information: full citation, references, citings, index terms

31 2b---Hypertext Systems: Organizing shared enterprise workspaces using component-based cooperative hypermedia

Jessica Rubart, Jörg M. Haake, Daniel A. Tietze, Weigang Wang

September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**

Full text available: pdf(380.50 KB) Additional Information: full citation, abstract, references, citings, index terms

Cooperative work in Extended Enterprises needs a flexible shared workspace for team members to access and manipulate shared information objects in a well-coordinated working process. Current shared workspace systems do not adequately support the evolving character of shared workspaces as needed by Extended Enterprises, i.e. the dynamic cooperation processes, various kinds of shared information contents and the set of cooperative tools. In this paper, the usage scenarios and requirements devel ...

32 The NASA Digital Earth Testbed

Jeff de La Beaujardière, Horace Mitchell, Robert Raskin, Ananth Rao

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Full text available: pdf(767.19 KB) Additional Information: full citation, abstract, index terms

The goal of Digital Earth (www.digitalearth.gov) is to create a virtual representation of our planet that enables a person to explore and interact with the vast amounts of natural and cultural information gathered about the Earth. The challenge is enormous, and a critical first step is interoperability among the servers, viewers, catalogs and middleware services in such a distributed computing network.

As part of its contribution to the public/private/academic Digital Earth (DE) partn ...

33 Extending OLAP querying to external object databases

Torben Bach Pedersen, Arie Shoshani, Junmin Gu, Christian S. Jensen

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available: pdf(168.32 KB) Additional Information: full citation, references, citings, index terms

34 Lessons learned through six years of component-based development

Michael Sparling

October 2000 **Communications of the ACM**, Volume 43 Issue 10

Full text available: pdf(360.60 KB) html(33.58 KB) Additional Information: full citation, references, citings, index terms

35 Component primer

Jon Hopkins

October 2000 **Communications of the ACM**, Volume 43 Issue 10

Full text available: pdf(148.14 KB) html(20.81 KB) Additional Information: full citation, references, citings, index terms

36 GNOME, its state and future

George Lebl, Elliot Lee, Miguel de Icaza

February 2000 **Linux Journal**

Full text available: html(25.48 KB) Additional Information: full citation, references, index terms

37 Influencing software usage

Lorrie Faith Cranor, Rebecca N. Wright

April 2000 **Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions**

Full text available: pdf(95.92 KB) Additional Information: full citation, references, index terms

38 Legally speaking

Pamela Samuelson
February 1990 **Communications of the ACM**, Volume 33 Issue 2
Full text available: pdf(498.62 KB) Additional Information: full citation, citings, index terms

39 Adding more "DL" to IDL: towards more knowledgeable component inter-operability
Alex Borgida, Premkumar Devanbu
May 1999 **Proceedings of the 21st international conference on Software engineering**
Full text available: pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

40 MOCA: a service framework for mobile computing devices
James Beck, Alain Gefflaut, Nayeem Islam
August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access**
Full text available: pdf(911.37 KB) Additional Information: full citation, references, citings, index terms

Keywords: Java, component software, mobile device, service discovery, service framework

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Relevance scale

1 Virtual extension: A comparison of B2B e-service solutions

Dan Jong Kim, Manish Agrawal, Bharat Jayaraman, H. Raghav Rao

December 2003 **Communications of the ACM**, Volume 46 Issue 12

Full text available: pdf(283.30 KB) html(25.71 KB) Additional Information: full citation, references, index terms

2 Papers: Component-based measurement: few useful guidelines

N. S. Gill, P. S. Grover

November 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 6

Full text available: pdf(257.34 KB) Additional Information: full citation, abstract, references, citings

Software industries are striving for new techniques and approaches that could improve software developer productivity, reduce time-to-market, deliver excellent performance and produce systems that are flexible, scalable, secure, and robust. Only software components can meet these demands and following this; component-based software engineering (CBSE) has emerged, which has generated tremendous interest in software development community. The paradigm shift to software components appears inevitabl ...

3 Session 3: Personal chronicling tools for enhancing information archival and collaboration in enterprises

Pilho Kim, Mark Podlaseck, Gopal Pingali

October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences**

Full text available: pdf(590.93 KB) Additional Information: full citation, abstract, references, index terms

One of the greatest challenges in enterprises today is the lack of dynamic and ongoing information about individuals' activities, interests, and expertise. Availability of such "personal chronicles" can provide rich benefits at both an individual and enterprise level. For example, personal chronicles can help individuals to far more effectively retrieve and review their activities and interactions, while at an enterprise level they can be data-mined to identify groups of common and complement ...

Keywords: XML, action capture, browse, business process modeling, chronicle, context modeling, enterprise, event, information, information sharing, interaction, interfaces, mobile, monitoring, pervasive systems, presentation systems, publication, publishing, retrieval, search, tag, ubiquitous computing

4 Session 4C: argumentation, persuation, and papers: Argument exchange in heterogeneous electronic commerce environments

Luís Brito, José Neves

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1**

Full text available: pdf(210.29 KB) Additional Information: full citation, abstract, references, index terms

Argumentation enables agents to justify their actions and to reach stable situations faster, due to the amount of information that is exchanged. Logic and, in special, Extended Logic Programming (ELP) provides a way to develop arguments which are mathematically correct and close to a working prototype. Logic-based argumentation exhibits a set of unparalleled features such as: adequacy to logic-based approaches to pre-argument reasoning, similarity to the human reasoning processes, reasoning with ...

Keywords: XML, argumentation, eCo, electronic commerce, extended logic programming

5 Modeling methodology: Distributed supply chain simulation in GRIDS

Rajeev Sudra, Simon J. E. Taylor, Tharumasegaram Janahan

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(206.55 KB) Additional Information: full citation, abstract, references, citings

Amongst the majority of work done in Supply Chain Simulation, papers have emerged that examine the area of model distribution. The executions of simulations on distributed hosts as a coupled model require both coordination and facilitating infrastructure. A distributed environment, the Generic Runtime Infrastructure for Distributed Simulation (GRIDS) is suggested to provide the bonding requirements for such a model. The advantages of transparently connecting the distributed components of a suppl ...

6 Provision of market services for eCo compliant electronic marketplaces

Sena Arpinar, Asuman Dogac

September 2000 **ACM SIGMOD Record**, Volume 29 Issue 3

Full text available: pdf(49.72 KB) Additional Information: full citation, abstract, index terms

The progress and wider dissemination of electronic commerce will be facilitated through interoperability infrastructures. Commerce Net's eCo framework is a promising effort in this direction. In the eCo framework, businesses participate in a marketplace through standard interfaces for their services and by exchanging standardized documents. This framework does not specify any further interfaces for the services a marketplace itself may offer.In this paper, we demonstrate that a rich set of marke ...

7 Component-based frameworks for e-commerce

Peter Fingar

October 2000 **Communications of the ACM**, Volume 43 Issue 10

Full text available: pdf(203.66 KB) html(27.14 KB) Additional Information: full citation, references, citings, index terms

8 Enterprise resource planning: componentizing the enterprise application packages

David Sprott

April 2000 **Communications of the ACM**, Volume 43 Issue 4

Full text available: pdf(111.17 KB) Additional Information:

html(34.85 KB) full citation, references, citings, index terms

9 Development of an OO infrastructure for mainframe database applications

Darryl James Rothering

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available: pdf(839.77 KB) Additional Information: full citation, abstract, references, index terms

Large mainframe installations need and want to exploit the advantages of Object Technology (OT), but without totally abandoning their legacy environments. Implementing Object Orientation in such a COBOL/CICS/DB2 environment is a challenge: there is neither language support, nor development tools, nor execution infrastructure, nor testing utilities. Yet Object Orientation can be fully implemented, and a project can still meet rigorous performance requirements and tough delivery time scales. ...

10 Towards a catalog of aspect-oriented refactorings

Miguel P. Monteiro, João M. Fernandes

March 2005 **Proceedings of the 4th international conference on Aspect-oriented software development**

Full text available: pdf(206.34 KB) Additional Information: full citation, abstract, references

In this paper, we present a collection of aspect-oriented refactorings covering both the extraction of aspects from object-oriented legacy code and the subsequent tidying up of the resulting aspects. In some cases, this tidying up entails the replacement of the original implementation with a different, centralized design, made possible by modularization. The collection of refactorings includes the extraction of common code in various aspects into abstract superaspects. We review the traditional ...

Keywords: aspect-oriented programming, code smells, object-oriented programming, programming style, refactoring

11 Systems: YABLE—yet another behaviour language

Tony Burrows, David England

March 2005 **Proceedings of the tenth international conference on 3D Web technology**

Full text available: pdf(166.09 KB) Additional Information: full citation, abstract, references

There is an increasing use of virtual environments for applications ranging from education to industrial processes, behavioural modification and games. While tools have been written to enable end users to generate static environments, little has been done with respect to dynamic ones, where behaviour is a major element for believability. This is still very much the province of the programmer.This paper examines the current state of virtual reality development with particular reference to the spe ...

12 How a good software practice thwarts collaboration: the multiple roles of APIs in software development

Cleidson R. B. de Souza, David Redmiles, Li-Te Cheng, David Millen, John Patterson

October 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 12th ACM SIGSOFT twelfth international symposium on Foundations of software engineering**, Volume 29 Issue 6

Full text available: pdf(161.73 KB) Additional Information: full citation, abstract, references, index terms

The principle of information hiding has been very influential in software engineering since its inception in 1972. This principle prescribes that software modules hide implementation

details from other modules in order to decrease their interdependencies. This separation also decreases the dependency among software developers implementing modules, thus simplifying some aspects of collaboration. A common instantiation of this principle is in the form of application programming interfaces (APIs ...

Keywords: application programming interfaces, empirical software engineering, interfaces, qualitative studies

13 Collaboration and group work: Light-weight communal digital libraries
Kurt J. Maly, Michael L. Nelson, Mohammad Zubair, Ashraf Amrou, S. Kothasama, Lan Wang, Richard Luce
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(117.61 KB) Additional Information: full citation, abstract, references, index terms

We describe Kepler, a collection of light-weight utilities that allow for simple and quick digital library construction. Kepler bridges the gap between established, organization-backed digital libraries and groups of researchers that wish to publish their findings under their control, anytime, anywhere yet have the advantage of their personal libraries. The personal libraries, or "archivelets", are Open Archives Initiative (OAI) compliant and thus available for harvesting from OAI service provid ...

Keywords: Documentation, Performance, Design

14 Reports: Exchange of applications programs for education: a national stalemate
J. R. Denk
February 1971 **ACM SIGCUE Outlook**, Volume 5 Issue 1
Full text available: pdf(649.88 KB) Additional Information: full citation

15 An assessment model for requirements identification in component-based software development
Hemant Jain, Padmal Vitharana, Fatemah Mariam Zahedi
November 2003 **ACM SIGMIS Database**, Volume 34 Issue 4
Full text available: pdf(320.60 KB) Additional Information: full citation, abstract, references, index terms

Software development literature is replete with studies that demonstrate how ineffective requirements analysis (RA) has led to failed applications. Some of the difficulties encountered in RA however are due to inherent limitations in traditional approach to software development. On the other hand, component-based software development (CBSD) presents a unique approach to developing software. Components advertise the services they offer and could be organized in a knowledge-base (i.e., repository) ...

Keywords: component-based software development, information processing theory, requirements analysis

16 Information retrieval session 6: categorization: Categorizing web queries according to geographical locality
Luis Gravano, Vasileios Hatzivassiloglou, Richard Lichtenstein
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**
Full text available: pdf(545.74 KB) Additional Information: full citation, abstract, references, citings, index

terms

Web pages (and resources, in general) can be characterized according to their *geographical locality*. For example, a web page with general information about wildflowers could be considered a *global* page, likely to be of interest to a geographically broad audience. In contrast, a web page with listings on houses for sale in a specific city could be regarded as a *local* page, likely to be of interest only to an audience in a relatively narrow region. Similarly, some search engin ...

Keywords: information retrieval, query classification, query modification, search engines, web search

17 A semantic-based approach to component retrieval

Vijayan Sugumaran, Veda C. Storey

August 2003 **ACM SIGMIS Database**, Volume 34 Issue 3

Full text available: pdf(367.67 KB) Additional Information: full citation, abstract, references, citings, index terms

There continues to be a great deal of pressure to design and develop information systems within a short period of time. This urgency has reinvigorated research on software reuse, particularly in component based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

Keywords: component based development, domain model, ontology, reuse repository, systems development

18 Making operating systems more robust: Improving the reliability of commodity operating systems

Michael M. Swift, Brian N. Bershad, Henry M. Levy

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available: pdf(262.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85% of recently reported failures. This paper describes Nooks, a *reliability subsystem* that seeks to greatly enhance OS reliability by isolating the OS from driver failures. The Nooks approach is practical: rather than guaranteeing complete fault tolerance through a new (and incompatible) OS ...

Keywords: I/O, device drivers, protection, recovery, virtual memory

19 Global abstraction-safe marshalling with hash types

James J. Leifer, Gilles Peskine, Peter Sewell, Keith Wansbrough

August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming**, Volume 38 Issue 9

Full text available: pdf(226.25 KB) Additional Information: full citation, abstract, references, citings, index terms

Type abstraction is a key feature of ML-like languages for writing large programs. Marshalling is necessary for writing distributed programs, exchanging values via network byte-streams or persistent stores. In this paper we combine the two, developing compile-

time and run-time semantics for marshalling, that guarantee abstraction-safety between separately-built programs. We obtain a namespace for abstract types that is global, i.e. meaningful between programs, by hashing module declarations. We ...

Keywords: ML, abstract types, distributed programming, hashing, lambda calculus, marshalling, modules, programming languages, serialisation, singleton kinds, type theory

20 Design, retrieval, and assembly in component-based software development

Padmal Vitharana, Fatemah Mariam Zahedi, Hemant Jain

November 2003 **Communications of the ACM**, Volume 46 Issue 11

Full text available: pdf(122.04 KB) html(31.71 KB) Additional Information: full citation, abstract, references, index terms, review

Until recently, anecdotal evidence could only suggest CBSD superiority in requirements identification. Here is a set of testable hypotheses to help distinguish hype from fact.

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» Key

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Software, IEEE
Volume 19, Issue 2, March-April 2002 Page(s):18 - 19
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Butler, R.; Desai, N.; Lusk, A.; Lusk, E.;
Cluster Computing, 2003. Proceedings. 2003 IEEE International Conference on
2003 Page(s):190 - 198
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Bowyer, A.; Cameron, S.; Jared, G.; Martin, R.; Middleditch, A.; Sabin, M.; Woodwark,
Shape Modeling and Applications, 1997. Proceedings., 1997 International Conference
3-6 March 1997 Page(s):71 - 76
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